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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...



### 2 [Efficient instrumentation for code coverage testing](#)



Mustafa M. Tikir, Jeffrey K. Hollingsworth

July 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '02**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: [pdf\(524.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Evaluation of Code Coverage is the problem of identifying the parts of a program that did not execute in one or more runs of a program. The traditional approach for code coverage tools is to use static code instrumentation. In this paper we present a new approach to dynamically insert and remove instrumentation code to reduce the runtime overhead of code coverage. We also explore the use of dominator tree information to reduce the number of instrumentation points needed. Our experiments show tha ...



**Keywords:** code coverage, dominator tree, dynamic code deletion, dynamic code patching, on-demand instrumentation, testing

### 3 [Information Retrieval: Improving pseudo-relevance feedback in web information retrieval using web page segmentation](#)



Shipeng Yu, Deng Cai, Ji-Rong Wen, Wei-Ying Ma

May 2003 **Proceedings of the 12th international conference on World Wide Web**

**WWW '03****Publisher:** ACM PressFull text available:  [pdf\(275.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In contrast to traditional document retrieval, a web page as a whole is not a good information unit to search because it often contains multiple topics and a lot of irrelevant information from navigation, decoration, and interaction part of the page. In this paper, we propose a VISION-based Page Segmentation (VIPS) algorithm to detect the semantic content structure in a web page. Compared with simple DOM based segmentation method, our page segmentation scheme utilizes useful visual cues to obtain ...

**Keywords:** page segmentation, query expansion, relevance feedback, web information retrieval

**4** Session 1: Non-blocking timeout in scalable queue-based spin locks

Michael L. Scott

July 2002

**Proceedings of the twenty-first annual symposium on Principles of distributed computing PODC '02****Publisher:** ACM PressFull text available:  [pdf\(999.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Queue-based spin locks allow programs with busy-wait synchronization to scale to very large multiprocessors, without fear of starvation or performance-destroying contention. Timeout-capable spin locks allow a thread to abandon its attempt to acquire a lock; they are used widely in real-time systems to avoid overshooting a deadline, and in database systems to recover from transaction deadlock and to tolerate preemption of the thread that holds a lock. In previous work we showed how to incorporate ...

**Keywords:** scalability, spin locks, synchronization, timeout

**5** Information retrieval 2: Dynamic maintenance of web indexes using landmarks

Lipyeow Lim, Min Wang, Sriram Padmanabhan, Jeffrey Scott Vitter, Ramesh Agarwal

May 2003

**Proceedings of the 12th international conference on World Wide Web WWW '03****Publisher:** ACM PressFull text available:  [pdf\(233.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent work on incremental crawling has enabled the indexed document collection of a search engine to be more synchronized with the changing World Wide Web. However, this synchronized collection is not immediately searchable, because the keyword index is rebuilt from scratch less frequently than the collection can be refreshed. An inverted index is usually used to index documents crawled from the web. Complete index rebuild at high frequency is expensive. Previous work on incremental inverted in ...

**Keywords:** inverted files, update processing

**6** Human interaction: Query length in interactive information retrieval

N. J. Belkin, D. Kelly, G. Kim, J.-Y. Kim, H.-J. Lee, G. Muresan, M.-C. Tang, X.-J. Yuan, C. Cool

July 2003

**Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '03****Publisher:** ACM Press

Full text available:  [pdf\(258.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Query length in best-match information retrieval (IR) systems is well known to be positively related to effectiveness in the IR task, when measured in experimental, non-interactive environments. However, in operational, interactive IR systems, query length is quite typically very short, on the order of two to three words. We report on a study which tested the effectiveness of a particular query elicitation technique in increasing initial searcher query length, and which tested the effectiveness ...

**Keywords:** interactive information retrieval, query effectiveness, query length

## 7 [Group communication specifications: a comprehensive study](#)



Gregory V. Chockler, Idid Keidar, Roman Vitenberg  
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4  
**Publisher:** ACM Press

Full text available:  [pdf\(499.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


View-oriented group communication is an important and widely used building block for many distributed applications. Much current research has been dedicated to specifying the semantics and services of view-oriented group communication systems (GCSs). However, the guarantees of different GCSs are formulated using varying terminologies and modeling techniques, and the specifications vary in their rigor. This makes it difficult to analyze and compare the different systems. This survey provi ...

**Keywords:** Group communication systems, partitionable group membership, process group membership, specifications of group communication systems, view synchrony, virtual synchrony

## 8 [Techniques for obtaining high performance in Java programs](#)



Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja  
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3  
**Publisher:** ACM Press

Full text available:  [pdf\(816.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This survey describes research directions in techniques to improve the performance of programs written in the Java programming language. The standard technique for Java execution is interpretation, which provides for extensive portability of programs. A Java interpreter dynamically executes Java bytecodes, which comprise the instruction set of the Java Virtual Machine (JVM). Execution time performance of Java programs can be improved through compilation, possibly at the expense of portabili ...

**Keywords:** Java, Java virtual machine, bytecode-to-source translators, direct compilers, dynamic compilation, interpreters, just-in-time compilers

## 9 [Computing curricula 2001](#)



September 2001 **Journal on Educational Resources in Computing (JERIC)**  
**Publisher:** ACM Press

Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Declarative specification of Web sites with S


Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
Volume 9 Issue 1**Publisher:** Springer-Verlag New York, Inc.Full text available:  [pdf\(188.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

**Keywords:** Declarative query languages, Web-site management11 Reduction design for generic universal switch blocks


Hongbing Fan, Jiping Liu, Yu-Liang Wu, C. K. Wong

October 2002 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 7 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(465.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A  $k$ -side switch block with  $W$  terminals per side is said to be a universal switch block ( $(k, W)$ -USB) if every set of the nets satisfying the routing constraint (i.e., the number of nets on each side is at most  $W$ ) is simultaneously routable through the switch block. The  $(4, W)$ -USB was originated by designing better switch modules for 2-D FPGAs, such as Xilinx XC4000-type FPGAs, whereas the generic USBs can be applied in multidimensional or some nonconventi ...

**Keywords:** FPGA architecture design, decomposition, routing, routing requirement, switch module, universal switch block12 Fast implementations of secret-key block ciphers using mixed inner- and outer-round pipelining

Pawel Chodowiec, Po Khuon, Kris Gaj

February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays FPGA '01****Publisher:** ACM PressFull text available:  [pdf\(691.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The new design methodology for secret-key block ciphers, based on introducing an optimum number of pipeline stages inside of a cipher round is presented and evaluated. This methodology is applied to five well-known modern ciphers, Triple DES, Rijndael, RC6, Serpent, and Twofish, with the goal to first obtain the architecture with the optimum throughput to area ratio, and then the architecture with the highest possible throughput. All ciphers are modeled in VHDL, and implemented using Xilinx ...

**Keywords:** AES, fast architectures, pipelining, secret-key ciphers

## 13

A survey of structured and object-oriented software specification methods and

techniques

Roel Wieringa

December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4**Publisher:** ACM Press

Full text available: pdf(605.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in w ...

**Keywords:** languages

14 Rotating combined queueing (RCQ): bandwidth and latency guarantees in low-cost, high-performance networks



Jae H. Kim, Andrew A. Chien

May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture ISCA '96**, Volume 24 Issue 2**Publisher:** ACM Press

Full text available: pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Network service guarantees not only provide significant performance benefits to distributed computing systems (more balanced resource utilization, fast fault recovery, and fair network access), but they are also essential for many new applications requiring real-time communications with continuous data types (audio/video). Most existing algorithms which provide network service guarantees are too complicated to be feasible in high-speed, low-cost switches for multicomputer networks. The simpler a ...

15 Extending Java for high-level Web service construction



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6**Publisher:** ACM Press

Full text available: pdf(947.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, Jwig, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

**Keywords:** Interactive Web services, XML, data-flow analysis

16 wEBMT: developing and validating an example-based machine translation system using the world wide web

Andy Way, Nano Gough

September 2003 **Computational Linguistics**, Volume 29 Issue 3**Publisher:** MIT Press

Full text available:  [pdf\(411.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have developed an example-based machine translation (EBMT) system that uses the World Wide Web for two different purposes: First, we populate the system's memory with translations gathered from rule-based MT systems located on the Web. The source strings input to these systems were extracted automatically from an extremely small subset of the rule types in the Penn-II Treebank. In subsequent stages, the ☐source, target☐ translation pairs obtained are automatically transformed into ...

### 17 Research track: Eliminating noisy information in Web pages for data mining



Lan Yi, Bing Liu, Xiaoli Li

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**

**Publisher:** ACM Press

Full text available:  [pdf\(468.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A commercial Web page typically contains many information blocks. Apart from the main content blocks, it usually has such blocks as navigation panels, copyright and privacy notices, and advertisements (for business purposes and for easy user access). We call these blocks that are not the main content blocks of the page the noisy blocks. We show that the information contained in these noisy blocks can seriously harm Web data mining. Eliminating these noises is thus of great importance. In this pa ...

**Keywords:** Web mining, noise detection, noise elimination


### 18 Spoken dialogue technology: enabling the conversational user interface



Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(987.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

**Keywords:** Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

### 19 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

**20** Managing images: Generic image classification using visual knowledge on the web

Keiji Yanai

November 2003

**Proceedings of the eleventh ACM international conference on  
Multimedia MULTIMEDIA '03****Publisher:** ACM PressFull text available: [pdf\(669.64 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we describe a generic image classification system with an automatic knowledge acquisition mechanism from the World-Wide Web. Due to the recent spread of digital imaging devices, the demand for image recognition of various kinds of real world scenes becomes greater. For realizing it, visual knowledge on various kinds of scenes is required. Then, we propose gathering visual knowledge on real world scenes for generic image classification from the World-Wide Web. Our system gathers a ...

**Keywords:** image classification, image gathering, web image mining

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### 1 [Integrating open hypermedia systems with the World Wide Web](#)



Kenneth M. Anderson

April 1997 **Proceedings of the eighth ACM conference on Hypertext HYPERTEXT '97**

Publisher: ACM Press

Full text available: [pdf\(1.00 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**Keywords:** Chimera, World Wide Web, intergration, open hypermedia systems

### 2 [Integrating VRML, Java, and HTML in a web-based tool for computer literacy](#)

Warren Patterson, Judy Hankins

 October 2000 **Journal of Computing Sciences in Colleges , Proceedings of the second annual CCSC on Computing in Small Colleges Northwestern conference , Proceedings of the fourteenth annual consortium on Small Colleges Southeastern conference CCSC '00**, Volume 16 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [pdf\(920.98 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Virtual reality visualization tools are gaining importance in many fields including medical training, elementary and secondary school education, and ecology, among others. Since humans live in a three-dimensional world, there is an increasing interest in developing educational tools that are three-dimensional in nature and that allow the user to interact with objects in the world. Virtual reality visualization tools can be used for this purpose. The rapid growth and popularity of the Internet ...

### 3 [Integrating World Wide Web technology into undergraduate education](#)



G. Scott Owen

 June 1996 **ACM SIGCSE Bulletin , ACM SIGCUE Outlook , Proceedings of the 1st conference on Integrating technology into computer science education ITiCSE '96**, Volume 28 , 24 Issue SI , 1-3

Publisher: ACM Press

Full text available: [pdf\(323.69 KB\)](#)
 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



4 Object-based navigation: an intuitive navigation style for content-oriented integration environment



Kyoji Hirata, Sougata Mukherjea, Yusaku Okamura, Wen-Syan Li, Yoshinori Hara

April 1997 **Proceedings of the eighth ACM conference on Hypertext HYPERTEXT '97**

**Publisher:** ACM Press

Full text available: [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** COIR, World-Wide Web, content-oriented integration, object-based navigation, object-level integration, relationship among objects

5 An approach for integrated specification and design of real-time systems

Y. Tanurhan, H. Gözl, S. Schmerler, K. Müller-Glaser

September 1996 **Proceedings of the conference on European design automation EURO-DAC '96/EURO-VHDL '96**

**Publisher:** IEEE Computer Society Press

Full text available: [pdf\(68.59 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

6 Web-based specification and integration of legacy services

Ying Zou, Kostas Kontogiannis

November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research CASCON '00**

**Publisher:** IBM Press

Full text available: [pdf\(279.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

7 CASE for Web sites: towards an integration of traditional case concepts and novel development tools



Reinhard Jung, Robert Winter

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

**Publisher:** ACM Press

Full text available: [pdf\(631.10 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** CASE, Internet-based systems, requirements, tools

8 Content integration for e-business



Michael Stonebraker, Joseph M. Hellerstein

May 2001 **ACM SIGMOD Record, Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(75.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We define the problem of content integration for E-Business, and show how it differs in fundamental ways from traditional issues surrounding data integration, application integration, data warehousing and OLTP. Content integration includes catalog integration as a special case, but encompasses a broader set of applications and challenges. We explore the characteristics of content integration and required services for any solution. In addition, we explore architectural alternatives and discuss ...

## 9 Declarative specification of Web sites with S

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(188.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

**Keywords:** Declarative query languages, Web-site management


## 10 Broadcast and on-line cultural heritage: Broadcast technologies for disseminating cultural heritage



John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stammnitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parwporth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illgner

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage VAST '01**

**Publisher:** ACM Press

Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and sub-image streaming. It describes two scenarios program for disseminating cultural heritage. The readers are invited to imagine how this system could be used to prepare programs for disseminating archaeology. The paper describes the Studio and Serv ...

## 11 Personalized information structures II: hyperstructure hotlists



Scott R. Tilley, Walter M. Lamia

February 1996 **Proceedings of the 13th annual international conference on Systems documentation: emerging from chaos: solutions for the growing complexity of our jobs SIGDOC '95**

**Publisher:** ACM Press

Full text available:  [pdf\(945.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 12 Declarative specification of data-intensive Web sites

Mary Fernández, Dan Suciu, Igor Tatarinov



December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages PLAN '99**, Volume 35 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Integrated information systems are often realized as data-intensive Web sites, which integrate data from multiple data sources. We present a system, called STRUDEL, for specifying and generating data-intensive Web sites. STRUDEL separates the tasks of accessing and integrating a site's data sources, building its structure, and generating its HTML representation. STRUDEL's declarative query language, called StruQL, supports the first two tasks. Unlike ad-hoc database queries ...

13 Herbal-T, enabling integration, interoperability, and reusability of Internet components



Israel Hilerio, Weidong Chen

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(1.57 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Herbal-T introduces an architecture where Internet component integration, interoperability, and component instantiation are the base for information flow coordination. This architecture introduces a framework for combining object functionality across the Internet to create new Internet applications. These new applications are defined in terms of active relationships. The concept of active relations as found in active databases is extended to define a new paradigm for creating Internet applicatio ...

**Keywords:** Herbal-T, Internet components, active relations, distributed relations, integration

14 Tools and approaches for developing data-intensive Web applications: a survey



Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(524.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

**Keywords:** HTML, Intranet, WWW, application, development

15 Developing services for open eprint archives: globalisation, integration and the impact of links



Steve Hitchcock, Les Carr, Zhuoan Jiao, Donna Bergmark, Wendy Hall, Carl Lagoze, Stevan Harnad

June 2000 **Proceedings of the fifth ACM conference on Digital libraries DL '00**

**Publisher:** ACM Press

Full text available: [pdf\(174.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid growth of scholarly information resources available in electronic form and their organisation by digital libraries is proving fertile ground for the development of sophisticated new services, of which citation linking will be one indispensable example. Many new projects, partnerships and commercial agreements have been announced to build citation linking applications. This paper describes the Open Citation (OpCit) project, which will focus on linking papers held in freely accessib ...

**Keywords:** Open Archives, digital library information architectures, distributed collections, electronic publishing, eprint archives, reference linking

16 A streamlined system for building online presentation archives using SMIL



Darren James, Jane Hunter

December 2000 **Proceedings of the Australasian conference on Computing education ACSE '00**

**Publisher:** ACM Press

Full text available: pdf(725.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The demand for and expectation of ubiquitous access to multimedia online learning resources are much higher amongst computer science students than in other fields of study. Previous systems providing internet access to digital video or audio recordings of lectures have been disappointing or ineffective as a learning experience or excessively complex and time-consuming from the educator's point of view. This paper describes a new approach to building an online presentation archive of lectures, ...

**Keywords:** SMIL, flexible delivery, metadata, online presentations, video

17 Course design & learning enhancement: From theories to actions: a proposal for a new course on enterprise information systems integration



Kimfong Lei, Julie R. Mariga, Benjamin R. Pobanz

October 2003 **Proceedings of the 4th conference on Information technology curriculum CITC4 '03**

**Publisher:** ACM Press

Full text available: pdf(201.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents a proposal for a new senior/gradates level courses concentrating on enterprise information systems/applications integration. The course will include introduction to different enterprise integration models and enterprise systems architectures, current and upcoming trends of technology, and design and implementation strategy. In addition to traditional class lectures, techniques such as problem-based learning (PBL) and case method are the essential approaches to delivery the co ...

**Keywords:** course development, curriculum, enterprise applications integration (EAI), enterprise integration, information systems

18 Engineering flexible World Wide Web services



Markus W. Schranz

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

**Publisher:** ACM Press

Full text available: pdf(709.22 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** WWW service engineering, Web service management, flexible Web services

19 Adapting content to mobile devices: DOM-based content extraction of HTML documents



Suhit Gupta, Gail Kaiser, David Neistadt, Peter Grimm

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Web pages often contain clutter (such as pop-up ads, unnecessary images and extraneous links) around the body of an article that distracts a user from actual content. Extraction of "useful and relevant" content from web pages has many applications, including cell phone and PDA browsing, speech rendering for the visually impaired, and text summarization. Most approaches to removing clutter or making content more readable involve changing font size or removing HTML and data components such as images ...

**Keywords:** DOM trees, HTML documents, accessibility, content extraction, reformatting, speech rendering



20 Effective Web data extraction with standard XML technologies



Jussi Myllymaki

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**Keywords:** crawling, data extraction, deep Web, semistructured data, wrappers

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